

Ex. Mail No. EM562003014US Dkt. No. 237/116 Sheet 1 of 19

FIG. 1B

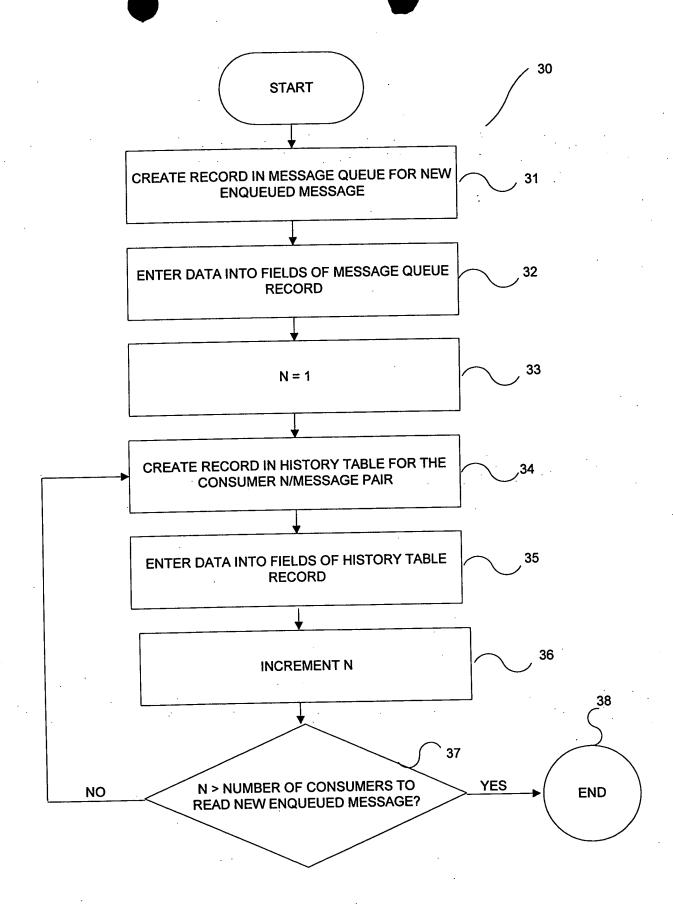
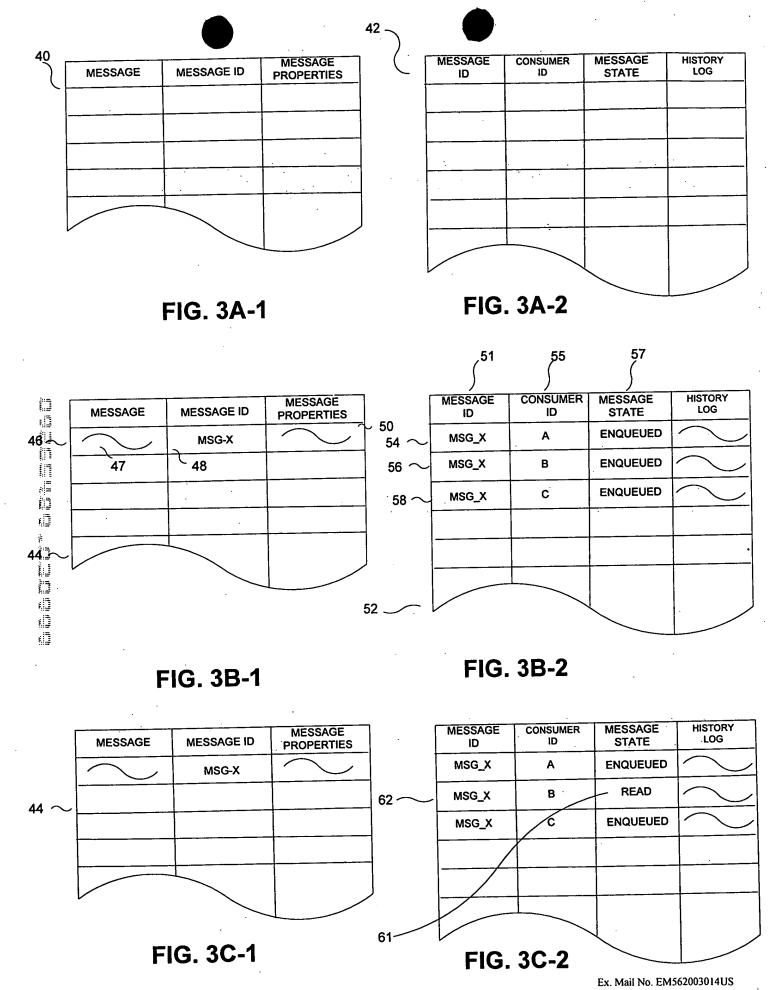


FIG. 2



Dkt. No. 237/116 Sheet 3 of 19

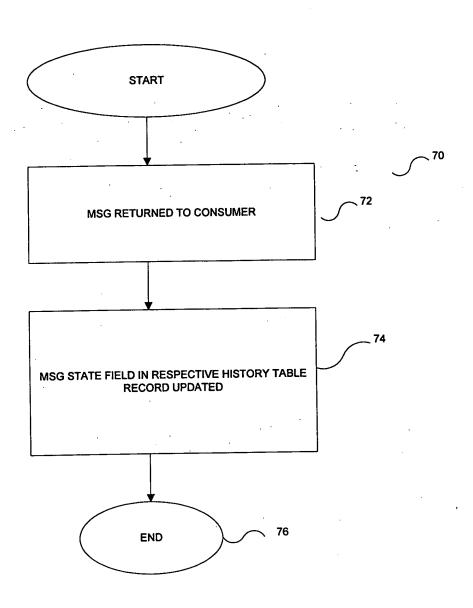


FIG. 4



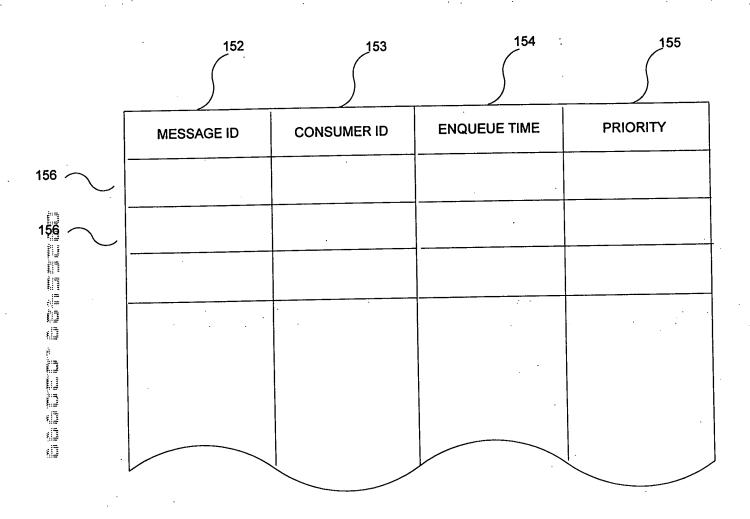


FIG. 5

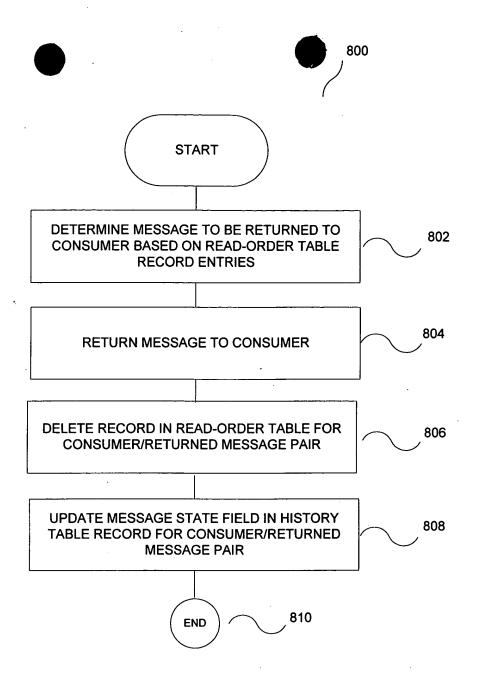


FIG. 6

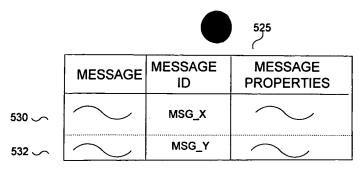


FIG. 7A-1

_	550	558	559
551	MESSAGE ID	CONSUMER ID	ENQUEUE TIME
$\sim$	MSG_X	Α	8:05
552	MSG_X	В	8:05
553	MSG_Y	Α	9:10
554	MSG_Y	В	9:10
555	MSG_Y	С	9:10
556	MSG_Y	D	9:10

FIG. 7A-2

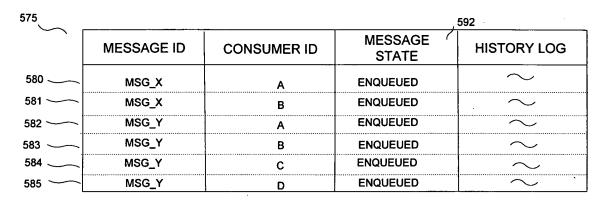


FIG. 7A-3

MESSAGE PROPERTIES
$\sim$
$\sim$ ,

FIG. 7B-1

**MESSAGE** 

ID

MSG\_X

MSG\_Y

**MESSAGE** 

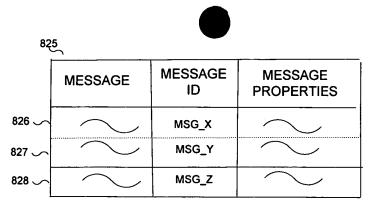
MESSAGE ID	CONSUMER ID	ENQUEUE TIME
MSG_X	Α	8:05
MSG_Y	Α	9:10
MSG_Y	В	9:10
MSG_Y	С	9:10
MSG_Y	D	9:10

FIG. 7B-2

595ع

			66م	04
	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
	MSG_X	A	ENQUEUED	
602	MSG_X	В	READ	
	MSG_Y	Α	ENQUEUED	
	MSG_Y	В	ENQUEUED	
	MSG_Y	С	ENQUEUED	
	MSG_Y	D	ENQUEUED	

FIG. 7B-3



	'	856	852	854
830	MESSAGE ID	CONSUMER ID	ENQUEUE TIME	PRIORITY
$\sim$	MSG_X	Α	8:05	2
831	MSG_X	В	8:05	2
832	MSG_Y	Α	8:30	1
833	MSG_Y	В	8:30	1
834	MSG_Z	A	9:00	1

FIG. 8A-1

FIG. 8A-2

875			,	846
`[	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
841 🔷	MSG_X	A	ENQUEUED	$\sim$
842 🔷	MSG_X	В	ENQUEUED	$\sim$
843 🔷	MSG_Y	Α	ENQUEUED	$\sim$
844 🔷 🗍	MSG_Y	В	ENQUEUED	$\sim$
845 🔾	MSG_Z	Α	ENQUEUED	$\sim$

FIG. 8A-3

860\_

		_	, ,
	844 🔷 🗋	MSG_Y	В
13	845 🔷	MSG_Z	Α
<u>                                  </u>	_ {		
# = 3:=			
NJ E			
82	5_		
<u>.</u> 1	~		
il il	MESSAGE	MESSAGE	MESSAGE
Trees.	WILCON COL	ID	PROPERTIES
826 🗓		MSG_X	$\sim$
827 ==	$\sim$ ,	MSG_Y	
827.			
828 ∽	$\sim$	MSG_Z	
-			

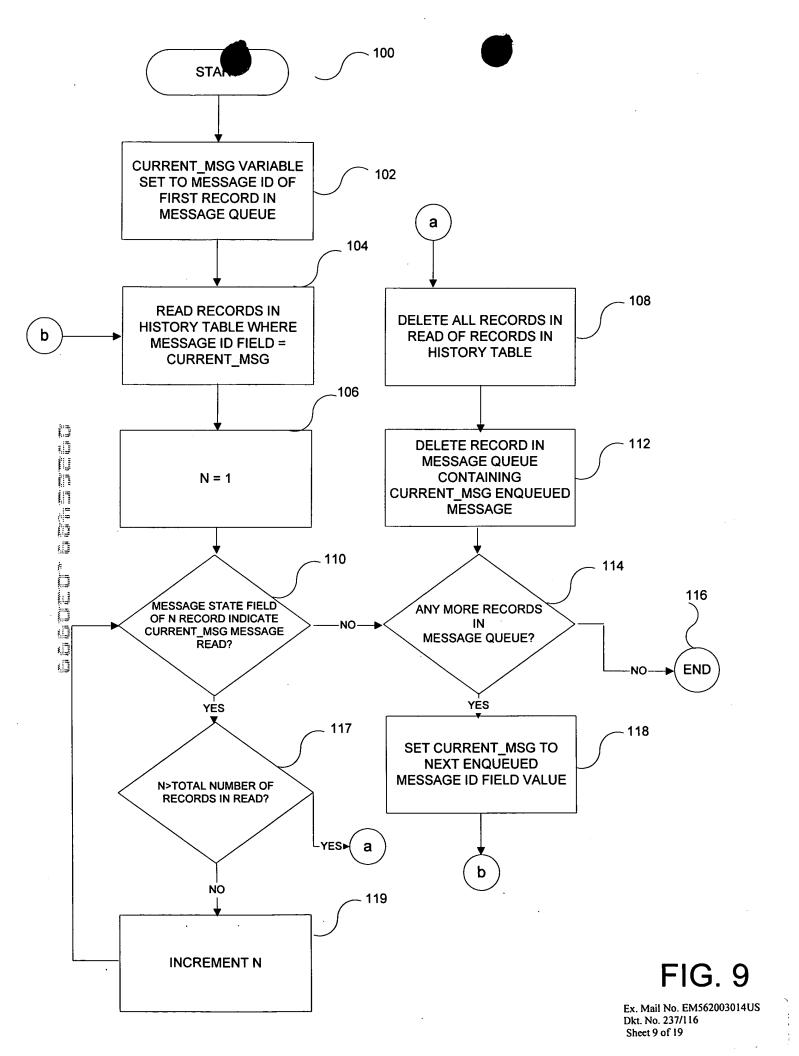
MESSAGE ID	CONSUMER ID	ENQUEUE TIME	PRIORITY
MSG_X	Α	8:05	2
MSG_X	В	8:05	2
MSG_Y	В	8:30	1
MSG_Z	Α	9:00	1

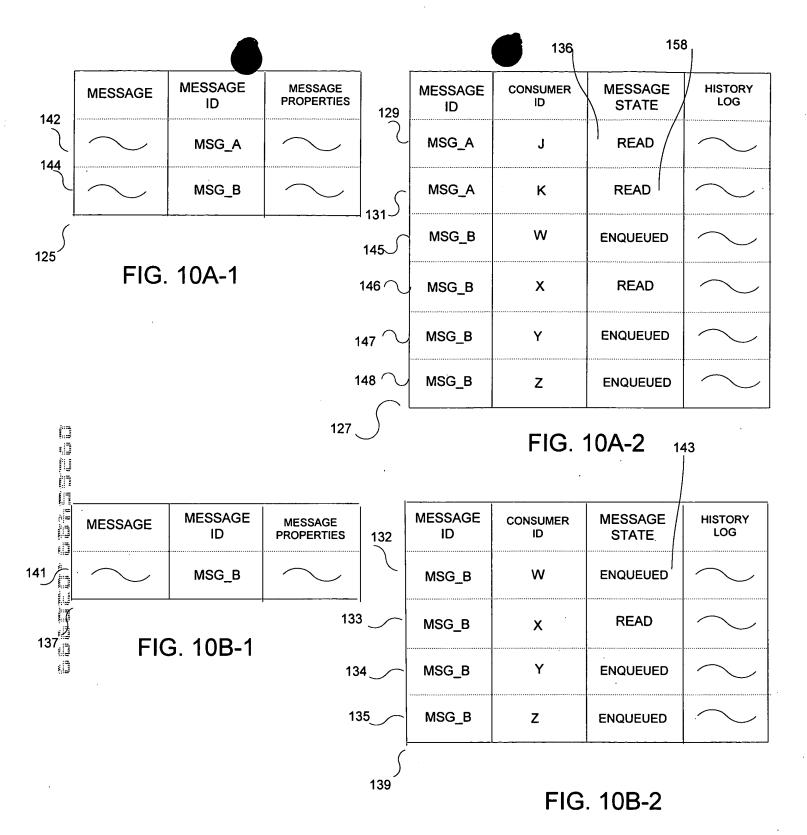
FIG. 8B-1

FIG. 8B-2

GE ID CO	NSUMER ID	MESSAGE STATE	HISTORY
			LOG
-	Α	ENQUEUED	
_x	В	ENQUEUED	
•	Α	READ	
-	В	ENQUEUED	
i i	Α	ENQUEUED	
	_Y	_X BY AY B	_X B ENQUEUED _Y A READ _Y B ENQUEUED

FIG. 8B-3





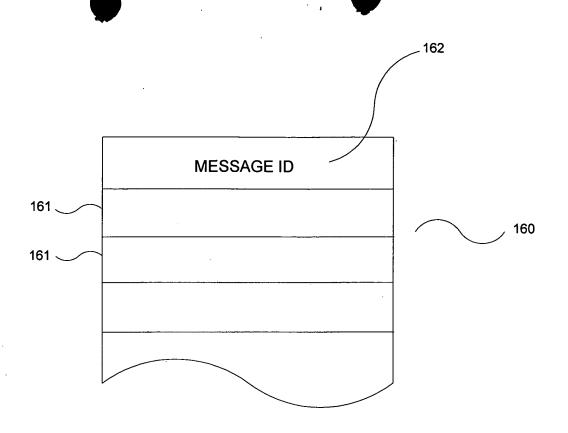


FIG. 11

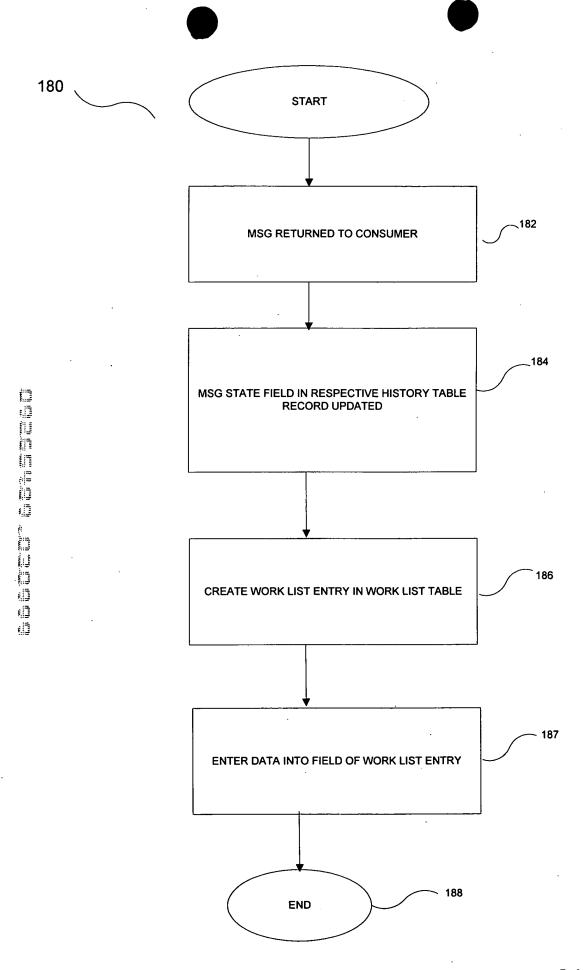


FIG. 12

Ex. Mail No. EM562003014US Dkt. No. 237/116 Sheet 12 of 19

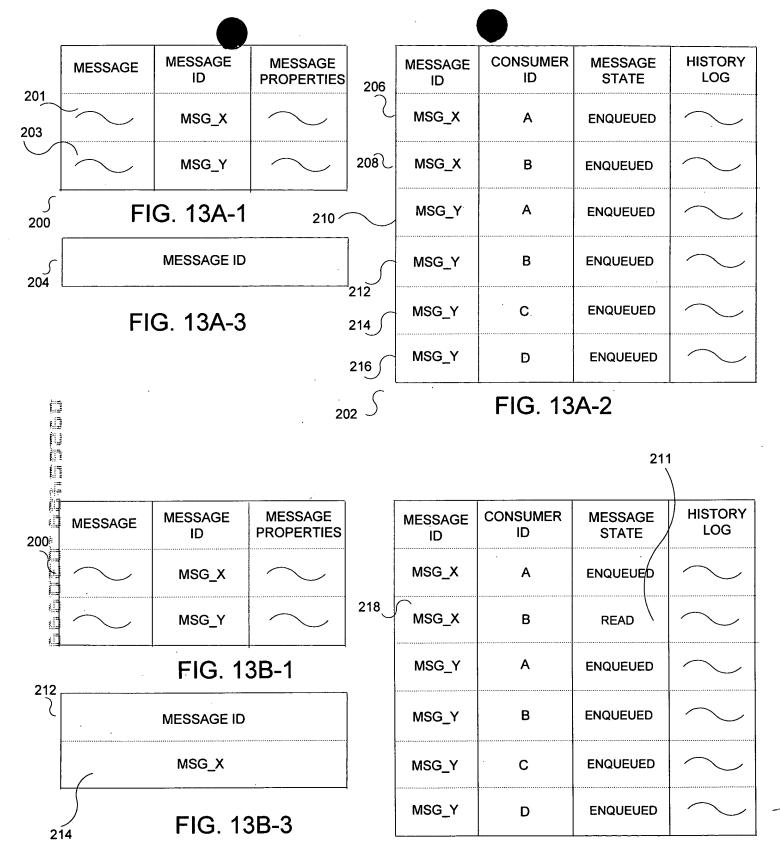
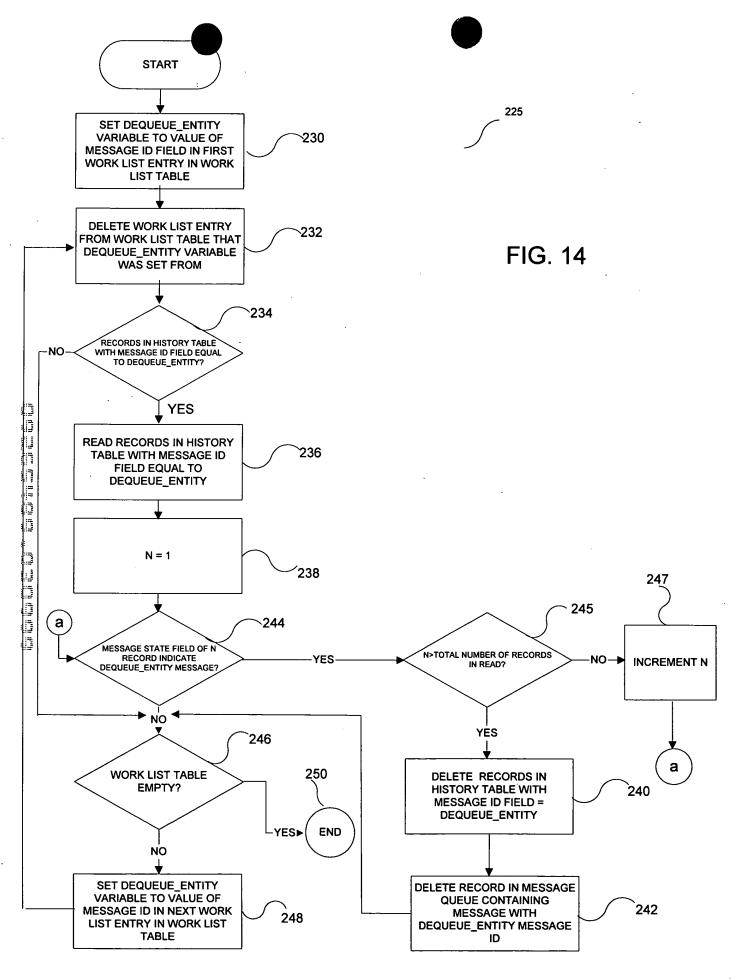


FIG. 13B-2



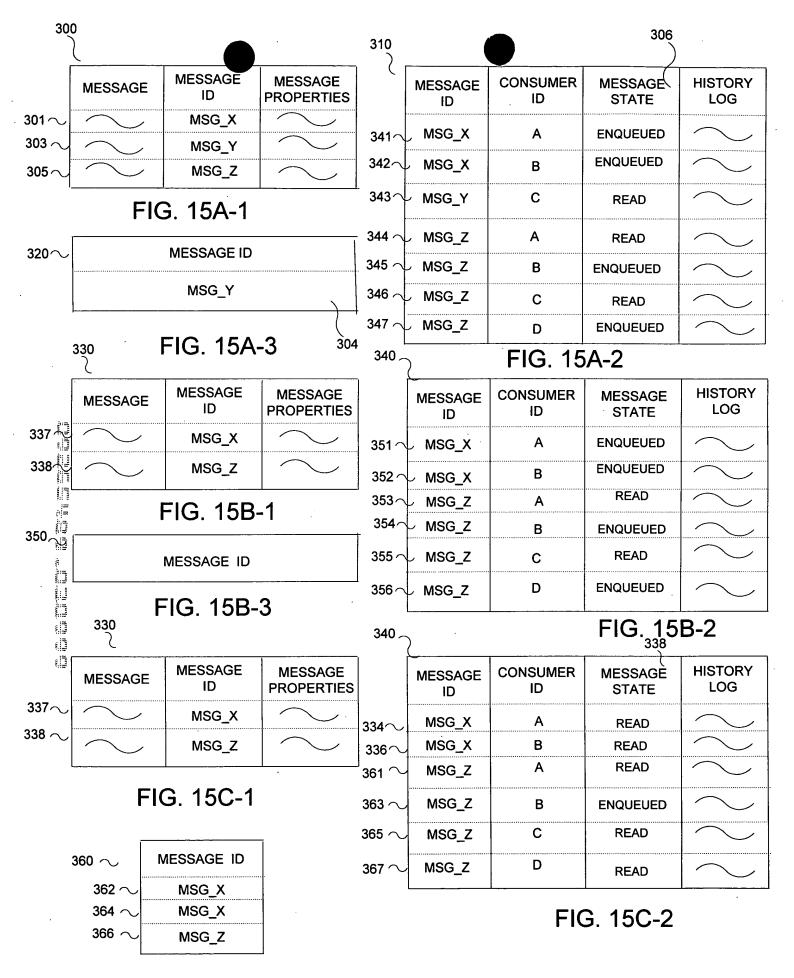
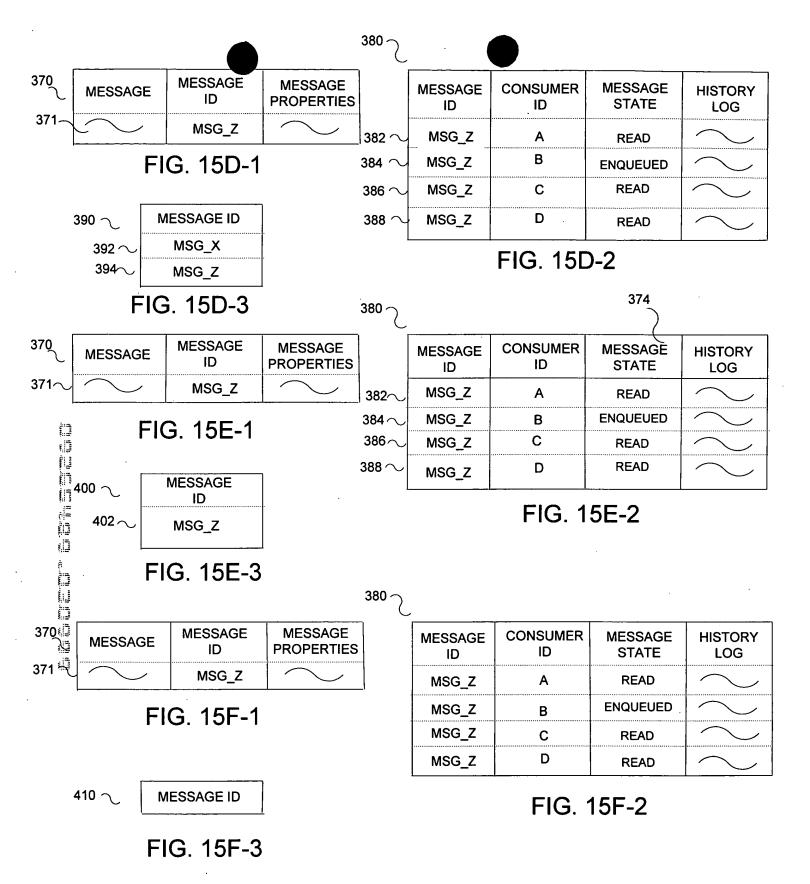


FIG. 15C-3

Ex. Mail No. EM562003014US Dkt. No. 237/116 Sheet 15 of 19



Ex. Mail No. EM562003014US Dkt. No. 237/116

Sheet 16 of 19

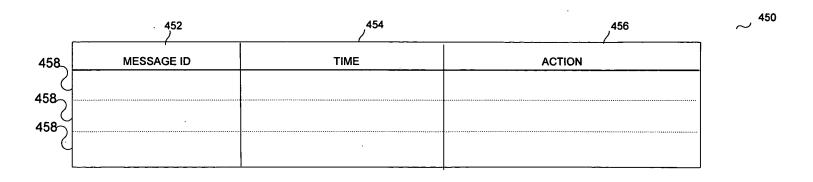


FIG. 16

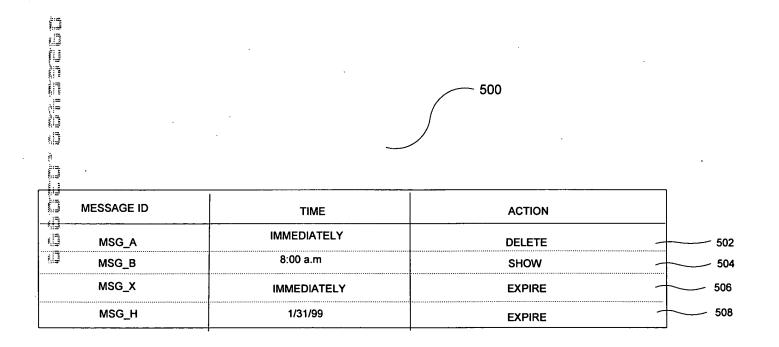
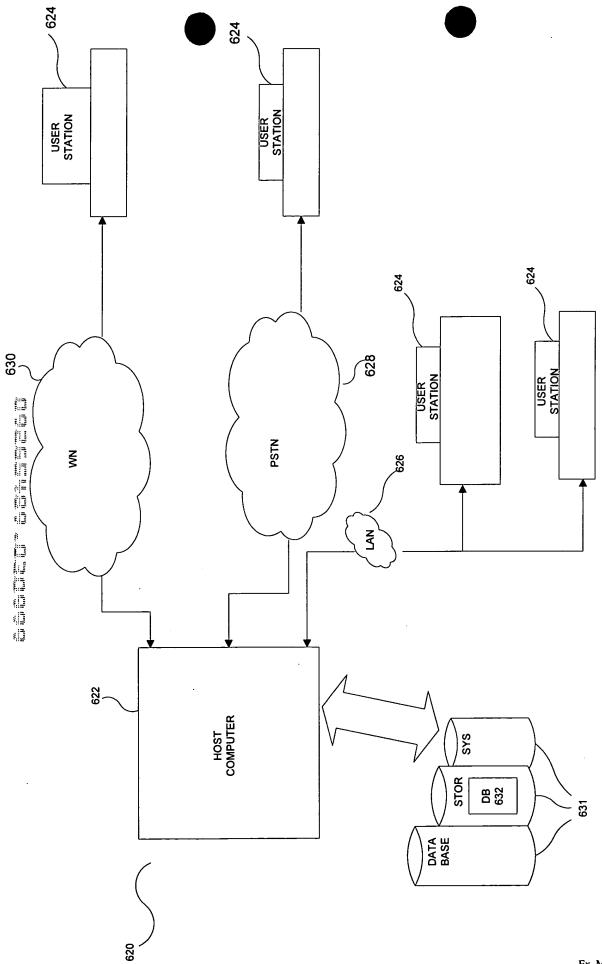


FIG. 17



Ex. Mail No. EM562003014US Dkt. No. 237/116 Sheet 18 of 19

